

# MSM200S

## Description

The MICROSPACE® MSM200S based on Intel's latest Atom processor has all of the standard PC interfaces plus Ethernet LAN and a sound controller. The permanently soldered memory results in added robustness. The PC/104-Plus bus (PCI + 8bit ISA), PCI Express Minicard (WLAN, GSM), 4x COM, GPS and 4 USB interfaces are available as functional extensions. The typical 6W power consumption permits passive cooling within a very broad working temperature range.

## Applications

- \_ Used in battery powered mobile computers
- \_ Information terminals with video displays
- \_ Game systems with music output
- \_ Measuring instruments
- \_ Telecommunication devices

## Ordering information (Option/accessories)

Article	No.	Description
Option L+	807006	PC/104plus Con. long not with Opt.CF (807007)
Option P+	807005	PC/104plus Con. short
MSM200-CKCON	803070	Cablekit with connector- print for USB, 1LAN, Sound Cables: FD, COM, LPT, PWR, PS2
MSM200-LANCON	803024	1G LAN cable with connector- print RJ45 and 900mAhBat
Option WLAN MCex	807414	MiniCard Expr. assembled, with antenna cable
Option GSM/UMTS MCex	807413	MiniCard Expr. assembled, with antenna cable



PCI

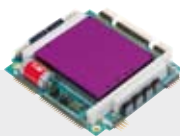
ISA

Atom™

1.6GHz

max.  
2GB RAM

1x LAN



## Technical data

Type	<b>MSM200S</b>
CPU*	SMA200, Atom Z510/Z530
ISA-BUS (no DMA modes)	8bit (IRQ) no DMA
PCI-BUS (Option 807006 or 807005)	Option
PCI Express-BUS	-
2 <sup>nd</sup> Level cache (kB)	512
Performance (GHz)*	1.1 / 1.6GHz
DRAM min-max (MB)*	soldered 0.5-2GB
PCI Express Minicard	1x (for WLAN/GSM/SSD)
Keyboard, mouse (PS/2)	yes
Boot drive	HD, LAN, USB, SSD
IDE interface P-ATA	44pin
IDE interface S-ATA (SIL 3132)	2x
COM1	RS232C
COM2	RS232C
COM3	-
COM4	-
LPT1	1x
USB (2.0)	4x
LAN Port 1 incl. transformer (Intel 82574L)	1GB LAN
LAN Port 2	-
Audio (codec onboard)	Stereo Line in/out ALC882
Video controller	internal
Video memory (MB)	128
LCD interface (1280 x 1024 x 85Hz)	yes, 24bit LVDS
DVI interface (1080 x 1920 x 60Hz)	-
CRT interface	yes
Video input	-
Watchdog	yes
Power normal (typ.)	5V/6W
Power suspend	5V/0.1W
Power management	yes
RTC battery onboard (typ. 10 years)	900mAh
Cooling type	passive
Operating temperature	-25°C to +70°C
Extended operating temperature (E48)	-40°C to +85°C
Size (W x L in mm)	90 x 96
Weight	130 g
MTBF	>200'000h
Special features 1	soldered RAM
Special features 2	-
Special features 3	-
Part no. (without SMA20x)*	802380*

### \*smartCore® Express modules (see also page 33 for details)

Article	Description	1GB RAM:
SMA200-11G-1GB	Atom Z510 incl. 1GB RAM	805801
SMA200-16G-1GB	Atom Z530 incl. 1GB RAM	805811
SMA200-16G-05GB	Atom Z530 incl. 0.5GB RAM	805810
SMA200-11G-05GB	Atom Z510 incl. 0.5GB RAM	805800

Manufacturer:

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